

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Shijun Sun

Serial No. 10/017,722

Examiner: Not yet assigned

Filed: December 13, 2001

Group Art Unit: 2121

For: INTEGER COSINE TRANSFORM MATRIX FOR PICTURE CODING

RECEIVED

BOX NON FEE AMENDMENT Assistant Commissioner for Patents, Washington, D.C. 20231 SEP 0 6 2002 Technology Center 2100

Prior to examination, enclosed is an amendment in the above-identified application.

The fee has been calculated as shown below.

<u>CLAIMS AS AMENDED</u>					
For:	Number After Amendment	Previous Number	Extra	Rate	Additional Fee
Total Claims	12	12-20*	0	x \$18 =	\$0
Independent Claims	2	2-3**	0	x \$84 =	\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT					\$0

^{*}greater of twenty (20) or number for which fee has been paid

Enclosed is Form PTO 1449 Information Disclosure Statement as well as cited references.
 Any deficiency or overpayment should be charged or credited to deposit account number 13-1703.

20575

PATENT TRADEMARK OFFICE

Respectfully submitted,

Stephen S. Ford Reg. No. 35,139

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Box

Non-Fee Amendment, Assistant Commissioner for Patents

Washington D.C. 20231 on:

gnature:

Jessica Leitch

MARGER JOHNSON & McCOLLOM, P.C. 1030 SW Morrison Street Portland, OR 97205 (503) 222-3613

^{**}greater of three (3) or number for which fee has been paid



PATENT APPLICATION
Attorney Docket No. 8371-148 09/12/02

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PRELIMINARY AMENDMENT

Prior to Examination, please amend the application as follows.

IN THE CLAIMS

Please amend the claims to read as follows:

1. A method for deriving a transform matrix, comprising:
deriving values for a 2^m x 2^m transform matrix using the following normalization
constraints:

$$\begin{cases} n_0 = norm \\ \sum_{i=0}^{2^{m-1}-1} n_{2\cdot i+1}^2 = 2^{m-1} \cdot norm^2 \\ \sum_{i=0}^{2^{m-2}-1} n_{4\cdot i+2}^2 = 2^{m-2} \cdot norm^2 \\ \sum_{i=0}^{2^{m-3}-1} n_{8\cdot i+4}^2 = 2^{m-3} \cdot norm^2 \\ \vdots \\ n_{2^{m-1}} = norm \end{cases}$$

where, *norm* is an integer representing a normalization factor of the transform matrix; and

selecting the norm that minimizes a DCT distortion function: